



1. Identification

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Product identifier	Brandt Sequestar 13.2% Fe				
Other means of identification					
Product code	21003				
Synonyms		[(Ethylenedinitrilo)tetraacetato]ferrate(1-), Sodium * EDTA, IRON (III) SODIUM * MONOSODIUM FERRIC EDTA * SODIUM FERRIC ETHYLENEDIAMINETETRAACETATE (EDTA)			
Recommended use	Agricultural/ Horticultural Use- N	licronutrient Fertilizer- Refer to product label.			
Recommended restrictions	Refer to product label.				
Manufacturer/Importer/Supplier/	Distributor information				
Manufacturer					
Company name Address	Brandt Consolidated, Inc. 2935 South Koke Mill Road Springfield, IL 62711 United States				
Telephone	Corporate Office	1-217-547-5800			
Website	www.brandt.co				
E-mail	msds@brandt.co				
Contact person Emergency phone number	EH&S / Regulatory Department CHEMTREC (24 hours):				
Emergency phone number	USA, Canada, Puerto Rico	1-800-424-9300			
	Virgin Islands	1-800-424-9300			
	International Maritime	+1 (703) 527-3887			
2. Hazard(s) identification					
Physical hazards	Not classified.				
Health hazards	Not classified.				
Environmental hazards	Not classified.				
OSHA defined hazards	Not classified.				
Label elements					
Hazard symbol	None.				
Signal word	None.				
Hazard statement	The substance does not meet the	ne criteria for classification.			
Precautionary statement					
Prevention	Observe good industrial hygiene	e practices.			
Response	Wash hands after handling.				
Storage	Store away from incompatible materials.				
Disposal	Dispose of waste and residues i	n accordance with local authority requirements.			
Hazard(s) not otherwise classified (HNOC)	None known.				
Supplemental information	None.				
3. Composition/informatio	n on ingrediente				

Substances

Chemical name	Common name and synonyms	CAS number	%
Ferric EDTA, Sodium Salt		15708-41-5	90 - 100*

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.				
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.				
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.				
Ingestion	Rinse mouth. Get medical attention if symptoms occur.				
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.				
Indication of immediate medical attention and special treatment needed	Treat symptomatically.				
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.				

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	

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Precautions for safe handling	Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

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Occupational exposure limits	No exposure limits noted for ingredient(s).			
Biological limit values	No biological exposure limits noted for the ingredient(s).			
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.			
Individual protection measures,	such as personal protective equipment			
Eye/face protection	Wear safety glasses with side shields (or goggles).			
Skin protection				
Hand protection	Wear appropriate chemical resistant gloves.			
Other	Wear suitable protective clothing.			

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9. Physical and chemical p	noperties
Appearance	Powder.
Physical state	Solid.
Form	Solid. Powder.
Color	Yellow. to. Brown
Odor	Odorless.
Odor threshold	Not available.
рН	4.5 - 5.5
Salt-Out / Crystallization Temp	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	Not available.
range	
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.000001 hPa
Vapor density	Not available.
Relative density	1.78 (OECD Guideline 109)
Solubility(ies)	
Solubility (water)	72 g/l @ 68 degrees F
Partition coefficient (n-octanol/water)	-8.8 (calculated) The data refers to teh undissociated form of the substance.
Auto-ignition temperature	Not available.
Decomposition temperature	> 411.8 °F (> 211 °C) (OECD Guideline 102)
Viscosity	Not available.
Other information	
Density	1.78 g/cm ³ (OECD Guideline 109)
Molecular formula	C10H12FeN2O8.Na
pH in aqueous solution	4.5 - 5.5 2% Solution
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition	No hazardous decomposition products are known

Hazardous decomposition No hazardous decomposition products are known. products

11. Toxicological information

Information on likely routes of exposure

	Apocalo and			
Ingestion	Expected to be a low ingestion hazard.			
Inhalation	No adverse effects due to inhalation are expected.			
Skin contact	No adverse effects due to skin contact are expected.			
Eye contact	Direct contact with eyes may cause temporary irritation.			
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.			
Information on toxicological effe	ects			
Acute toxicity	Not available.			
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitizatior	1			
Respiratory sensitization	Not available.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.			
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)			
Not listed.				
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			
Aspiration hazard	Not available.			

12. Ecological information

Ecotoxicity	toxicity The product is not classified as environmentally hazardous. However, this does not enpossibility that large or frequent spills can have a harmful or damaging effect on the endots of the end			
Product		Species		Test Results
Brandt Sequestar 13.2% Fe				
Aquatic				
Fish	LC50	Fathead minno	w (Pimephales promelas)	100 mg/l, 96 hours
Components		Species		Test Results
Ferric EDTA, Sodium Salt (CAS 15708-41	-5)		
Aquatic				
Fish	LC50	Fathead minno	w (Pimephales promelas)	100 mg/l, 96 hours
* Estimates for product may	be based on	additional componen	t data not shown.	
Persistence and degradability	No data is	available on the deg	radability of this product.	
Bioaccumulative potential	Not availa	Not available.		
Partition coefficient n-octa Brandt Sequestar 13.2% Fe	•	og Kow)	-8.84 (calculated) The da of the substance.	ata refers to teh undissociated form
lobility in soil	No data a	vailable.		
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	ons			
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Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulationsDispose in accordance with all applicable regulations.Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste
disposal company.Waste from residues / unused
productsDispose of in accordance with local regulations. Empty containers or liners may retain some
product residues. This material and its container must be disposed of in a safe manner (see:
Disposal instructions).Contaminated packagingEmpty containers should be taken to an approved waste handling site for recycling or disposal.
Since emptied containers may retain product residue, follow label warnings even after container is
emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

All components are on the U.S. EPA TSCA Inventory List. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard. 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Hazard categories

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

- US. New Jersey Worker and Community Right-to-Know Act Not listed.
- US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	05-03-2013
Revision date	09-14-2015
Version #	04
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of the Product to determine suitability of the Product for user's particular use.
Revision Information	Product and Company Identification: Product and Company Identification